

## Minneapolis Water Works Monthly Plant Effluent Water Analysis for: October 2015

Physical and Chemical Water
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Filysical and Chemical Water Quality		
	Plant Effluent Average Value	
Temperature, River Water Average (°C)	15.6	
Total Organic Carbon (ppm* as C)	4.03	
Total Dissolved Solids (ppm)	156	
Turbidity (NTU)	0.07	
Alkalinity-Total (ppm as CaCO <sub>3</sub> )	46	
Ammonia Nitrogen (ppm as N)	0.9	
Chlorine Residual (ppm Cl as Cl <sub>2</sub> )	3.9	
Fluoride-F (ppm as F)	0.70	
рН	8.88	
Nitrate - NO <sub>3</sub> (ppm as N)	0.68	
Nitrite - NO <sub>2</sub> (ppm as N)	< 0.015	
Phosphate-PO <sub>4</sub> (ppm as PO <sub>4</sub> )	0.82	
Sulfate - SO <sub>4</sub> (ppm as SO <sub>4</sub> )	25.3	
Total Hardness (grains per gallon) EDTA method	4.4	
Total Hardness (ppm as CaCO <sub>3</sub> ) EDTA method	75	
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## Chemical Water Quality - Inorganic Metals

## **Plant Effluent Average Value**

## **Chemical Element**

Aluminum-Al (ppm as Al)	0.01
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	30.6
Chloride-Cl (ppm as Cl)	29.3
Chromium (ppm as Cr)	< 0.01
Copper-Cu (ppm as Cu)	0.01
Iron-Fe (ppm as Fe)	Not Detected
Lead-Pb (ppm as Pb)	Not Detected
Magnesium-Mg (ppm as Mg)	2.5
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as Si)	6.5
Sodium-Na (ppm as Na)	15.6
Zinc-Zn (ppm as Zn)	Not Detected
*ppm = parts per million	